

Amendments to the Claims:

The listing of claims will replace all prior versions, and listings of claims in the application:

Listing of Claims:

1-20 (cancelled)

21. (Currently Amended) A method for making a composition ~~comprising an amorphous sugar glass without crystals therein and at least one compound having an activity that is about 80% or more of its original activity after a period of time at about 37 °C to about 70 °C which comprises to stabilize at least one biologically, chemically or pharmaceutically active compound which is normally subject to deactivation on drying comprising the step of~~

(a) ~~forming an aqueous system by mixing the compound with which is a solution of~~

(i) one or more monosaccharide sugar alcohol which would normally form sugar crystals on drying; and

(ii) ~~a compound which is normally subject to deactivation on drying, or a mixture of such compounds; and~~

~~——(iii) at least one additive which is a glass-former or a formulation-facilitator, the total amount of the additive being sufficient to cause the monosaccharide sugar alcohol to form a glass on drying; wherein, and the additive itself does not crystallize during the drying step (b);~~

(b) ~~drying the aqueous system; and~~

(c) ~~solidifying the components (i), (ii) and (iii) as an amorphous glass without crystals therein, whereby the amorphous glass stabilizes the compound or mixture of compounds therein and prevents damage thereto during drying wherein the composition of the solution being selected such that it solidifies as an amorphous glass irrespective of the presence or absence of the active compound.~~

22. (Previously Presented) The method of claim 21, wherein the aqueous system contains from 0.05 to 90% by weight of sugar alcohol.

23. (Previously Presented) The method of claim 21, wherein the ratio of the sugar alcohol plus the additive to the compound is at least 0.25:1 by weight.

24. (Previously Presented) The method of claim 23, wherein the ratio of the sugar alcohol plus the additive to the compound is at least 0.5:1 by weight.

25. (Previously Presented) The method of claim 21, wherein the compound is a protein, polysaccharide or nucleic acid.

26. (Previously Presented) The method of claim 21, wherein the compound is an enzyme, serum, a serum complement, an antibody or antigen (either free or coupled to a support) a nucleic acid, a fluorescent protein, or a vaccine component.

27. (Previously Presented) The method of claim 21, wherein the aqueous system is dried under conditions selected from one or more of the group consisting of ambient temperature or above, chill drying, freeze drying, spray drying, vacuum drying and drying at atmospheric pressure.

28. (Previously Presented) The method of claim 21, wherein the sugar alcohol is selected from the group consisting of mannitol, galactitol, xylitol, arabinitol and inositol.

29. (Previously Presented) The method of claim 21, wherein the additive is selected from the group consisting of peptide, protein, borate ion, calcium lactate, phosphate, silicate and acetate salts.

30. (Previously Presented) The method of claim 21, wherein the additive is selected from the group consisting of boric acid, tetraborate salt of sodium or potassium and sodium mannitoborate.

31. (Previously Presented) The method of claim 21, wherein the amorphous glass is formed from a mixture of two or more monosaccharide sugar alcohols.

32. (Previously Presented) The method of claim 21, wherein the additive is a protein or a denatured protein.

33. (Previously Presented) The method of claim 21, wherein the amorphous glass is formed from a formulation including mannitol.

34. (Previously Presented) The method of claim 33, wherein the formulation further includes borate ion as an additive.

35. (Previously Presented) The method of claim 33, wherein the formulation further includes calcium lactate as an additive.

36. (Previously Presented) The composition of claim 21, wherein the amorphous glass comprises:

mannitol 33.3%, inositol 33.3% and PVP 33.3%;
mannitol 31.6%, inositol 31.6%, xylitol 5% and calcium lactate 31.6%;
mannitol 33.3%, inositol 33.3% and calcium lactate 33.3%;
mannitol 33.3%, inositol 33.3% and Byco C 33.3%;
mannitol 23.3%, inositol 23.3%, calcium lactate 30% and PVP 23.3%;
mannitol 33.3%, arabinitol 33.3% and calcium lactate 33.3%;
mannitol 30%, inositol 15%, galactitol 15% and Byco C 40%;
mannitol 30%, inositol 15%, galactitol 15% and calcium lactate 40%;
mannitol 33%, Byco C 33% and calcium lactate 33%;
mannitol 50%, and Kollidon 30 (polyvinylpyrrolidone (PVP)) 50%;
mannitol 33%, Kollidon 30 (polyvinylpyrrolidone (PVP)) 33% and calcium lactate 33%;
mannitol 50%, and Dextran 50%; or
mannitol 33%, Dextran 33% and calcium lactate 33%.

37 – 44 (Cancelled)

45. (Currently Amended) A composition comprising an amorphous sugar glass without crystals therein containing at least one monosaccharide sugar alcohol and at least one additive which is a glass-former or a glass-formation-facilitator and at least one biologically, chemically or pharmaceutically active compound which is normally subject to deactivation on drying having an activity that is about 80% or more of its original activity after a period of storage at about 37 °C to about 70 °C in a weight ratio of the monosaccharide sugar alcohol plus the additive to the compound of at least 0.25:1, wherein the monosaccharide sugar alcohol and the additive being selected such that the composition solidifies as an amorphous glass irrespective of the presence or absence of the active compound.

46. (Previously Presented) The composition of claim 45, wherein the ratio of the sugar alcohol plus the additive to the compound is at least 0.5:1 by weight.

47. (Previously Presented) The composition of claim 45, wherein the compound is a protein, polysaccharide or nucleic acid.

48. (Previously Presented) The composition of claim 45, wherein the compound is an enzyme, serum, a serum complement, an antibody or antigen (either free or coupled to a support) a nucleic acid, a fluorescent protein, or a vaccine component.

49. (Previously Presented) The composition of claim 45, wherein the aqueous system is dried under conditions selected from one or more of the group consisting of ambient temperature or above, chill drying, freeze drying, spray drying, vacuum drying and drying at atmospheric pressure.

50. (Previously Presented) The composition of claim 45, wherein the sugar alcohol is selected from the group consisting of mannitol, galactitol, xylitol, arabinitol and inositol.

51. (Previously Presented) The composition of claim 45, wherein the additive is selected from the group consisting of peptide, protein, borate ion, calcium lactate, phosphate, silicate and acetate salts.

52. (Previously Presented) The composition of claim 45, wherein the additive is selected from the group consisting of boric acid, tetraborate salt of sodium or potassium and sodium mannitoborate.

53. (Previously Presented) The composition of claim 45, wherein the amorphous glass is formed from a mixture of two or more monosaccharide sugar alcohols.

54. (Previously Presented) The composition of claim 45, wherein the additive is a protein or a denatured protein.

55. (Previously Presented) The composition of claim 45, wherein the amorphous glass is formed from a formulation including mannitol.

56. (Previously Presented) The composition of claim 55, wherein the formulation further includes borate ion as an additive.

57. (Previously Presented) The composition of claim 55, wherein the formulation further includes calcium lactate as an additive.

58. (Previously Presented) The composition of claim 45, wherein the amorphous glass comprises:

mannitol 33.3%, inositol 33.3% and PVP 33.3%;
mannitol 31.6%, inositol 31.6%, xylitol 5% and calcium lactate 31.6%;
mannitol 33.3%, inositol 33.3% and calcium lactate 33.3%;
mannitol 33.3%, inositol 33.3% and Byco C 33.3%;
mannitol 23.3%, inositol 23.3%, calcium lactate 30% and PVP 23.3%;
mannitol 33.3%, arabinitol 33.3% and calcium lactate 33.3%;
mannitol 30%, inositol 15%, galactitol 15% and Byco C 40%;
mannitol 30%, inositol 15%, galactitol 15% and calcium lactate 40%;
mannitol 33%, Byco C 33% and calcium lactate 33%;
mannitol 50%, and Kollidon 30 (polyvinylpyrrolidone (PVP)) 50%;
mannitol 33%, Kollidon 30 (polyvinylpyrrolidone (PVP)) 33% and calcium lactate 33%;
mannitol 50%, and Dextran 50%; or
mannitol 33%, Dextran 33% and calcium lactate 33%.

59 – 66 (Cancelled)